Burkholder, Dallas[burkholder.dallas@epa.gov]

From: Sent:

Lindsay Fitzgerald

Mon 2/24/2014 8:48:11 PM

Subject: UCS comments

Hey Dallas-

Just wondering if you know who is reviewing the Union of Concerned Scientists comments, specifically regarding palm oil?

Heard you were on the phone for the meeting regarding the cost of carbon as it relates to biodiesel, let me know if you have any questions.

Thanks,

Lindsay

### Lindsay Fitzgerald

Director, Regulatory Affairs

National Biodiesel Board

O: (202) 737-8801

C: (610) 639-0048

lfitzgerald@biodiesel.org

www.biodiesel.org

Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Christopher Hessler

Sent:

Thur 1/16/2014 9:12:55 PM

Subject: FW: prices

Christopher Hessler

Partner

202-296-8086 (O)

202-460-0945 (M)

chessler@ajw-inc.com

2200 Wilson Blvd. / Suite #310 / Arlington, VA 22201



AJW's work focuses on enhancing market opportunities and removing market barriers for innovative technologies.

From: Christopher Hessler

Sent: Monday, January 13, 2014 2:29 PM To: Machiele.Paul@epamail.epa.gov

Subject: prices

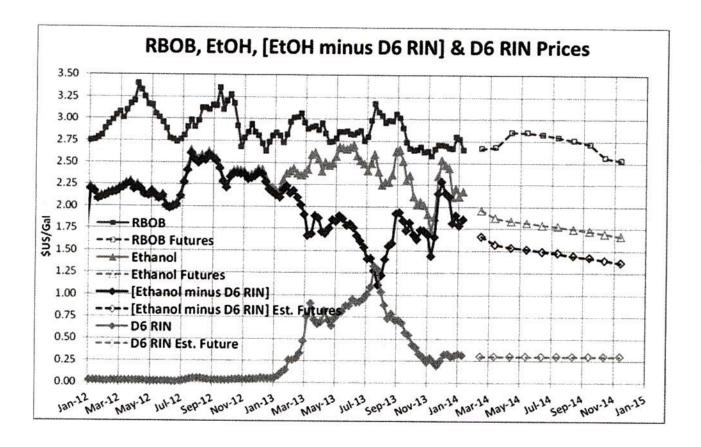
Paul,

When last we spoke, you suggested that the reason for the collapse in RIN prices was the collapse in ethanol prices relative to gasoline prices. If the RIN were acting only as a marker for the delta between ethanol and gasoline prices, RIN prices should be closely correlated with that delta. The data in the chart below suggests that something else is the major driver of RIN prices. My view is that the RIN price factors in that pricing delta, but is driven primarily by the

demand for RINs relative to the supply. Demand, of course, is driven by the RVOs. I would be interested in your perspective.

Also, we have been noodling on an approach that EPA might consider for smoothly managing the residual uncertainty (even assuming the use of Monte Carlo modelling) around predicting cellulosic production. The idea would be to have a clear, predictable method of addressing any instance where the cellulosic supply was larger than the RVO in a given year. Is it safe to assume that you guys would be interested in chatting about that sort of thing?

Chris



Christopher Hessler

Partner

202-296-8086 (O)

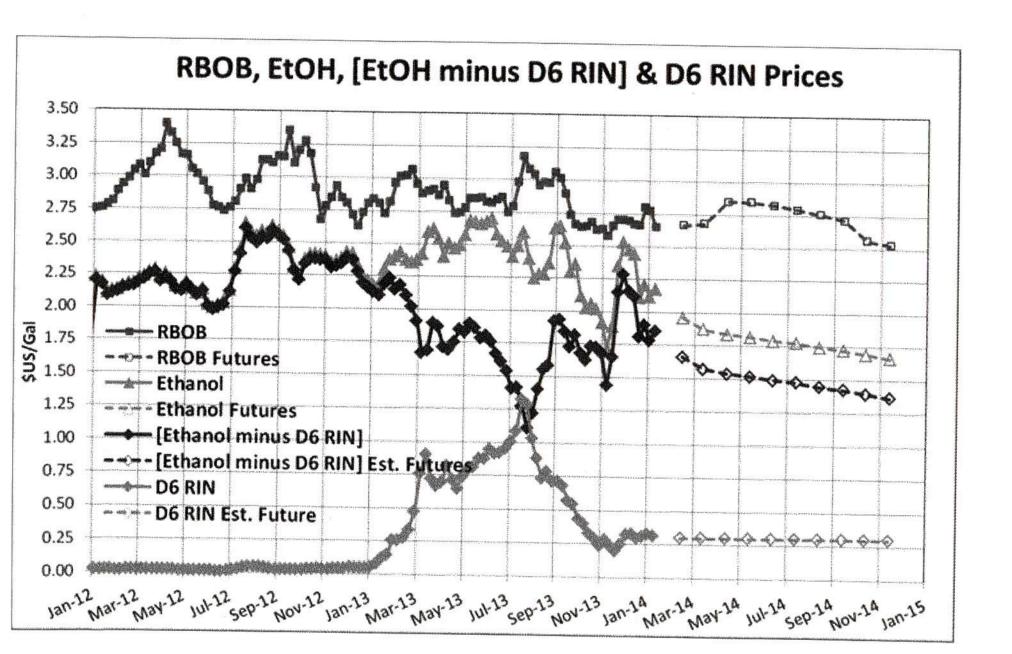
202-460-0945 (M)

chessler@ajw-inc.com

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Dawn Moore[DMoore@ethanolrfa.org]

From:

Dawn Moore

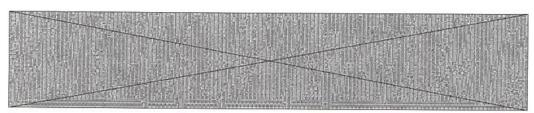
Sent: Tue 1/7/2014 6:03:17 PM

Subject: Embargoed Until 2:30pm Eastern - New Statistical Analysis Shows RINs Have No Impact on

Retail Gas Prices

Good Afternoon – Thank you for your RSVP to today's media call at 2:30pm EST. A new RIN and gas price analysis will be released during the call. Via the links below, please find an EMBARGOED UNTIL 2:30 PM EST copy of the analysis. We look forward to having you on the call and answering your questions.

#### Dawn



# New Statistical Analysis Shows RINs Have No Impact on Retail Gas Prices

(January 7, 2014) WASHINGTON — Retail gasoline prices were unaffected by the erratic surge in prices for Renewable Identification Number (RIN) credits in 2013, according to a detailed statistical <u>analysis</u> conducted by Informa Economics, Inc. and released today by the Renewable Fuels Association (RFA).

"Changes in prices of renewable identification numbers (RINs) did not cause changes in retail gasoline prices in 2013," according to a 7-page report summarizing Informa's analysis. "Retail gasoline prices were driven primarily by movements in crude oil prices and secondarily by changes in the spread between domestic and international crude oil prices and the level of vehicle miles driven in the U.S., which varies seasonally."

In essence, a RIN is a unique "serial number" used under the Renewable Fuel Standard (RFS) regulation to commemorate the production of one gallon of ethanol. The RIN is attached to the gallon of ethanol at the point of production and generally remains affixed to the gallon throughout the supply chain. Thus, when a blender or refiner purchases a gallon of ethanol, it is also receiving the attached RIN (at no additional cost). The RIN is separated from the gallon when the ethanol is physically blended with gasoline by an obligated refiner or blender. At this point, the RIN becomes an instrument for demonstrating compliance with annual RFS blending requirements.

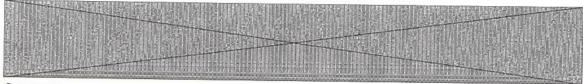
Informa's analysis uses accepted and proven statistical methods to examine whether any type of causal relationship existed between RIN prices and retail gas prices in 2013. The results of the

statistical tests revealed no relationship. "Although retail gasoline prices and RIN prices both increased in early 2013 and remained elevated (though volatile) during the middle of the year, this was mainly coincidental, and upon closer examination it can be determined that these changes generally occurred for different reasons," the report concluded. "In fact, the increase in gasoline price early in the year actually pre-dated the increase in RIN prices."

Commenting on the report, RFA President and CEO Bob Dinneen said, "This analysis should put to rest the oil industry's ridiculous assertion that RINs somehow affect the retail price of gasoline at the pump. The bottom line is that RINs are free for refiners who purchase and blend required volumes of ethanol with gasoline. Only those refiners who stubbornly refuse to blend required ethanol volumes have a need to buy RINs on the open market; and in the highly competitive gasoline marketplace, there is no way they can pass those costs on to consumers and remain competitive with refiners and blenders who are blending more ethanol than required. Some refiners and blenders are actually profiting from the sale of RINs. The market is essentially a closed loop, with some participants incurring costs and others reaping profits. In the end, it's a zero sum game, and the price a consumer pays for gasoline is unaffected."

Dinneen continued, "Unfortunately, some key decision-makers appear to have bought into Big Oil's threats and sham analysis suggesting that higher RIN prices will lead to higher retail fuel prices. This report from Informa Economics sets the record straight and should clear up any remaining confusion about the relationship, or lack thereof, between RINs and gas prices. Energy policy and regulation should be guided by science and thoughtful analysis, not Big Oil's bombastic talking points."

The Informa report, commissioned by the RFA, is available here.



#### Contact:

Dawn Moore Communications Director Renewable Fuels Association (202) 289-3835 dmoore@ethanolrfa.org

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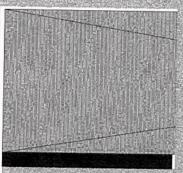
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To: Burkholder, Dallas[burkholder.dallas@epa.gov] From: BIO World Congress on Industrial Biotechnology

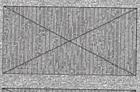
Sent: Thur 12/12/2013 4:39:16 PM

Subject: Last Day to Submit a Proposal for the 2014 Program



# Call for **Papers Ends** Today-Submit Your Proposal Now!

Conference **Organizer** Co-Organizer



All panel and paper proposals for the 2014 BIO World Congress on Industrial Biotechnology are due today, December 12, 2013. Use the link below to submit your abstract now!

Submit an

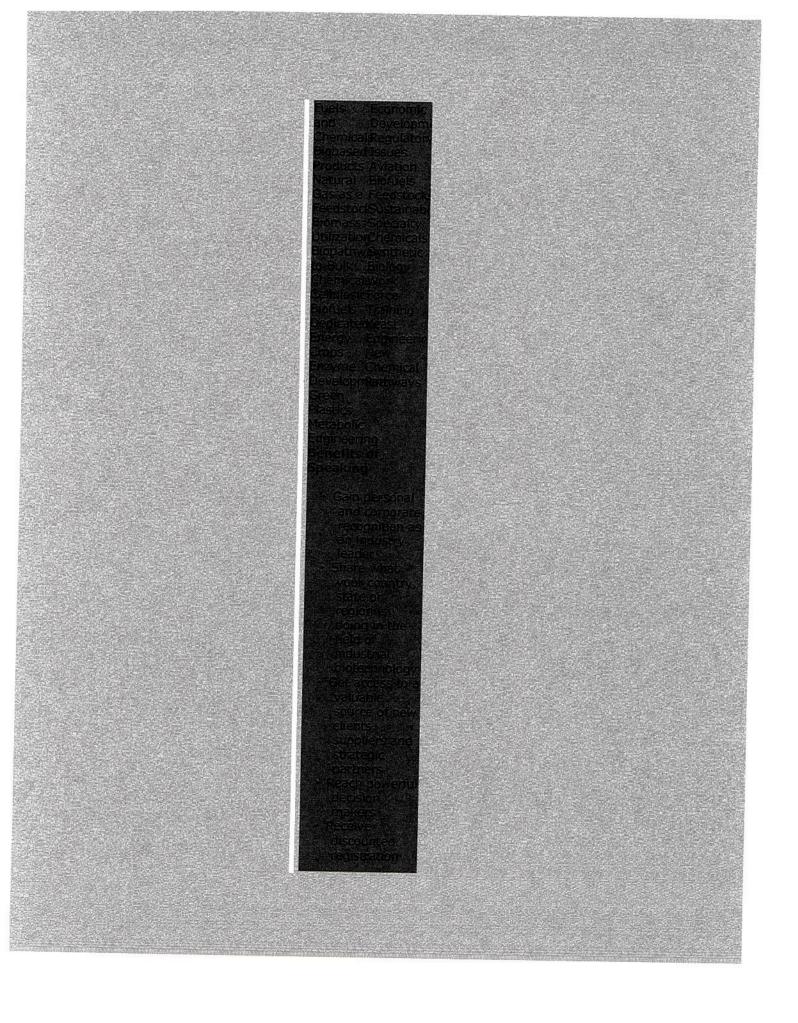
# Abstract New for 2014, the

Growing Global Markets breakout track at the BIO World Congress on

Industrial Biotechnology will highlight international technology platforms, draw attention to common and unique international policy issues, and provide a forum for discussion of new opportunities for business development and company partnerships. The track aims to showcase regional clusters of industrial biotechnology around the world, featuring both established and emerging geographies.

The 11th Annual BIO World Congress on Industrial Biotechnology will take place May 12-15, 2014 in Philadelphia at the Pennsylvania Convention Center. BIO is proud to partner with PHLLife to bring this event to the Philadelphia area!

Topics
of
Interest Genetic
Include: Engineered
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Chemical Finance
Algae Regional



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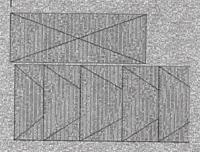
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Biotechnology Industry Organization 1201 Maryland Avenue, SW Suite 900 Washington, DC 20024 202-962-9200 (p) 202.488.6301 (f)

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Brent Erickson

Sent:

Thur 10/31/2013 4:11:51 PM

Subject: Meeting in December

Dear Dallas.

This is an important time in our industry. Currently we see growth in renewable chemicals that has been driven by the volatile price of oil and consumer demand for more environmentally friendly products. Producers of renewable chemicals are looking for partnerships across the Pacific to further the growth of the industry. Investment in innovative formation of biobased platforms for renewable chemicals can provide real opportunities to create green jobs, reduce dependence on foreign oil and increase energy security for the United States.

Biofuels too continue to progress despite some policy challenges in Washington. Cellulosic fuels are being commercialized rapidly and we are seeing significant progress in commercializing drop-in fuels. That is why we are excited about the BIO Pacific Rim Summit on Industrial Biotechnology & Bioenergy taking place in San Diego December 8-11, 2013.

Biofuels and renewable chemicals are just two of the key topics that will be discussed at this unique conference. We are tracking a record number of attendees and expect over 380 participants. Please see a list of companies and organizations that have currently registered to attend. More information on the event can be found at bio.org/pacrim. I hope you take a moment to register soon, now that the conference is only about five weeks away. I look forward to seeing you and others from your organization in beautiful San Diego this December.

Abengoa Bioenergy US Holding, Inc. Hawaii Biotechnology Ag-West Bio Inc. AJ Industries Alaska Airlines Al-Balga' Applied University Algae Biomass Organization AltAir Fuels

American Process, Inc. Amity Institute of Biotechnology,

Amity University Amyris, Inc.

Arizona State University, AzCATI Arzeda Corp.

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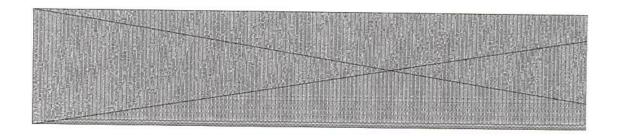
Best Personal Regards

#### **Brent Erickson**

**Executive Vice President** Industrial and Environmental Section Biotechnology Industry Organization www.BIO.org/ind

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KHughes@perkinscoie.com[KHughes@perkinscoie.com]

Cc:

King, Melanie[King.Melanie@epa.gov]; Sutton, Tia[sutton.tia@epa.gov]; Burkholder,

Dallas[burkholder.dallas@epa.gov]; Moulis, Charles[moulis.charles@epa.gov]

From: Sent:

Herzog, Jeff

Tue 9/17/2013 4:41:20 PM

Subject: ULSD Question

Dear Ms. Hughes,

WRT to the fuel requirements for use in stationary engines, I need to refer you to my colleague Melanie King (cc'd to this message).

Diesel fuel used in category 2 marine engines is subject to the phased-in 500ppm/15ppm locomotive and marine diesel fuel sulfur standards. Small refiners and large refiners using credits may continue to produce 500 ppm locomotive and marine diesel fuel to refuel C2 marine and locomotive engines that do not require the use of 15ppm diesel fuel outside the NorthEast Mid-Atlantic (NEMA) Area until June 1, 2014. Such fuel may be sold from terminals outside the NEMA area until August 1, 2014, and from retailers outside of the NEMA area until October 1, 2014.

Diesel fuel produced by transmix processors for use in locomotive and C2 marine engines that do not require the use of 15ppm diesel fuel will continue to be subject to a 500ppm sulfur standard indefinitely. Outside of the NEMA area such fuel may continue to be marketed in the same manner as small refiner and credit 500 ppm LM fuel until June 1, 2014. After this date, transmix processors will need an EPAapproved compliance plan prior to marketing such fuel. Transmix processors can currently market such fuel inside the NEMA area with an EPA-approved compliance plan.

Fuel sold for use in C3 marine engines inside the ECA area is currently required to meet a 10,000 ppm sulfur standard. Beginning June 1, 2014, all ECA marine fuel is subject to a maximum per-gallon sulfur content of 1,000 ppm. Fuel with higher sulfur content can be used by vessels in the ECA area if they employ an alternate compliance strategy (e.g. scrubbers).

Best Regards.

Jeff Herzog, 734 214-4227

From: Hughes, Krista (Perkins Coie) [mailto:KHughes@perkinscoie.com]

Sent: Tuesday, September 17, 2013 10:32 AM

To: Burkholder, Dallas Subject: ULSD Question

Good Morning Mr. Burkholder.

I found your information on the EPA website as one of the contacts for EPA's diesel fuel program. I have a question regarding EPA's ULSD program that I am hoping you might be able to answer. This question was submitted via the Fuels Support Portal on August 13th but we have not yet received a response. Please let me know if there is someone else I should contact about this.

The question, as originally submitted on the Fuels Support Portal, is:

I am writing to seek confirmation that certain fuels will remain exempt from the 15ppm ultra low sulfur diesel standards under 40 CFR 80.501, et seq., after the June 1, 2014 deadline for compliance with the NRLM standard. Specifically, it is my understanding that number 4, 5, and 6 fuel oil (e.g., residual fuels or residual fuel blends, intermediate fuel oil (IFO), and heavy fuel oil grades 30 and higher), may continue to be used for stationary source purposes and that distillate fuel with a T–90 distillation point greater than 700 °F (i.e., Number 4, 5, and 6 fuels (e.g., IFO Heavy Fuel Oil Grades 30 and higher), including fuels meeting the American Society for Testing and Materials (ASTM) specifications DMB, DMC, and RMA–10 and heavier), may continue to be used in category 2 or 3 marine diesel engines. I understand that all of these fuels, and any other diesel fuels or fuel oils, will be subject to a 1,000 ppm sulfur limit if they are produced or sold for use in an ECA, except as otherwise allowed under 40 CFR Part 1043.

Thank you for any information you can give me!

Sincerely,

Krista Hughes | Perkins Coie LLP

700 13th Street N.W., Suite 700

Washington, DC 20005-3960

202.654.6309

7: 202.654.9989

KHughes@perkinscole.com

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From: Sent: Hughes, Krista (Perkins Coie) Tue 9/17/2013 2:31:55 PM

Subject:

**ULSD Question** 

Good Morning Mr. Burkholder,

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Thank you for any information you can give me!

Sincerely.

Krista Hughes | Perkins Coie LLP

700 13th Street N.W., Suite 700

Washington, DC 20005-3960

**2**: 202.654.6309

7: 202.654.9989

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Brent Erickson

Sent:

Thur 4/18/2013 7:22:40 PM

Subject:

BIO Announces 2013 Carver Award Recipient

Dear Dallas,

The Biotechnology Industry Organization (BIO) is pleased to announce **Dr. Jay Keasling** as the recipient of its **2013 George Washington Carver Award** for Innovation in Industrial Biotechnology.

The award annually honors the original vision of George Washington Carver who, over a century ago, achieved world renown by using chemistry and agriculture to produce everyday consumer products, changing the nature of farm economics and sustainability. Today, companies are realizing Carver's vision by using industrial biotechnology to manufacture bioplastics, renewable chemicals, food ingredients and fuels from renewable agricultural resources.

Dr. Keasling is a professor of biochemical engineering at University of California, Berkley, an associate laboratory director at Lawrence Berkeley National Laboratory, the CEO of the Joint Bioenergy Institute and Director of Synthetic Biology Engineering Research Center. Dr. Keasilng was selected by a panel of industry leaders for his contributions to the field industrial biotechnology through the innovative applications of synthetic biology.

Using synthetic biology, Dr. Keasling is developing processes that commercialize replacements for petroleumbased products that consumers use every day from hard plastics and paints to soda bottles, cosmetics and car tires. <u>Click here</u> to view the BlOtechNow article further detailing achievements.

The award presentation and Dr. Keasling's keynote address will take place during BIO's 10th Annual World Congress on Industrial Biotechnology. The conference will be held June 16-19, 2013 in Montreal, Canada.

I hope that you are able to join us for great food, great wine and a fantastic program! Over <u>280 companies are registered</u> to date and we expect over 1,200 attendees.

I also wanted to let you know that the early bird registration rate will expire just about two weeks from now on Friday, May 3rd. Please be sure to register now if you want to take advantage of the cost savings.

Best Regards,

Prost Field

Brent Erickson
Executive Vice President
Industrial and Environmental Section
Biotechnology Industry Organization

Biotechnology Industry Organization 1201 Maryland Avenue, SW Suite 900 Washington, DC 20024 202.962.9200 (p) 202.488.6301 (f)

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Brent Erickson

Sent:

Tue 3/12/2013 5:44:19 PM

Subject:

New Report on the Biobased Economy

Dear Dallas,

I wanted to let you know that the Milken Institute just issued a new report called "Unleashing the Bioeconomy "on converting Ag feedstocks to renewable products and need for stable policy. Read the report here www.milkeninstitute.org/pdf/BioEconFIL.pdf .

The United States' rapidly growing biobased economy is fueled by biotech companies leading an explosion of innovation as biorefineries across the country are producing new employment opportunities and jump-starting economic development when they're needed most. Industrial biotech is growing fast in Canada as well and more than \$86-billion biobased economy already generates 7 percent of Canada's gross domestic product, according to

Also recently U.S. Secretary of Agriculture Tom Vilsack wrote about the endless opportunities of advanced biofuels in particular to help grow the rural economy. "The production and use of advanced biofuels has already had a very positive impact for our nation, and biofuels hold even more opportunity to create jobs and economic prosperity for rural America in the years ahead," said Vilsack.

Environmental Entrepreneurs (E2) tracks growth of the advanced biofuel industry and their latest survey shows that more than 80 advanced biofuel businesses have started up in dozens of states across the country. According to a National Resources Defense Council (NRDC) blog post, 26 new biorefineries dedicated to making advanced biofuels will be open for business by 2015. The NRDC post says the new refineries alone will produce about 700 million gallons of clean, renewable, domestic fuel, and have the potential to create more than 18,000 jobs. According to the E2 survey, if state and the federal clean fuel standards are implemented as planned, 48,000 jobs could be created by 2015 throughout the entire advanced biofuel industry.

Advanced biofuels is slated to be a hot topic during both plenary programs and breakout sessions at the upcoming BIO World Congress on Industrial Biotechnology. The plenary sessions featuring advanced biofuels include a Monday afternoon plenary, Feeding Next Generation Biorefineries in 2013, that will be comprised of biotech feedstock producers and experts in the field to discuss the progress in deploying conventional and novel feedstocks around the world, and what challenges feedstock providers face as they attempt to build and expand a marketplace for biobased raw materials.

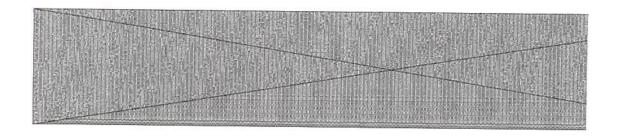
The closing plenary, Feeling the Heat of the Biofuels Boom will include advanced biofuels producers, government officials, and biofuels customers will discuss significant policy challenges and mounting political pressure against the industry. Topics will cover the shift in public opinion on the potential for biofuels as a viable petroleum alternative, cap ex hurdles, regulatory burdens, and how the biofuels industry plans to overcome these obstacles in 2013. Learn more about BIO's World Congress on Industrial Biotechnology here.

Best Regards,

Brent Erickson

**Executive Vice President** Industrial and Environmental Section Biotechnology Industry Organization

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Biotechnology Industry Organization 1201 Maryland Avenue, SW Suite 900 Washington, DC 20024 202.962.9200 (p) 202.488.6301 (f)

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Burkholder, Dallas[burkholder.dallas@epa.gov]

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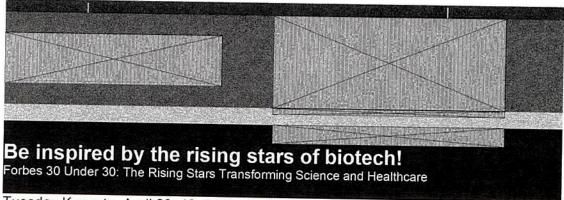
Sarah Arth

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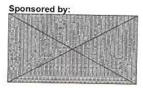
Thur 3/7/2013 6:32:10 PM

Subject:

BIO Tuesday Keynote - Forbes 30 Under 30 in Science and Healthcare



Tuesday Keynote, April 23: 12-1:30pm Join BIO President and CEO Jim Greenwood for a conversation with an awe-inspiring group of young, rising stars in biotech and learn how they are changing the way science, innovation and healthcare are progressing. Inspired by Forbes 30 Under 30: Science & Healthcare.

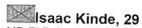




# Laura Deming, 18

Partner, Longevity Fund

Working in labs by age 12 and enrolled at MIT by 14, Laura Deming was driven by a clear goal - to cure aging. Frustrated that such work was not being commercialized, she obtained the backing of Facebook founding investor Peter Thiel to start an anti-aging focused VC fund. View her bio



MD-PhD Candidate, Johns Hopkins School of Medicine

Kinde is developing techniques to improve the accuracy of DNA sequencing technology and demonstrating that it might be used to detect cancers arising from the colon, pancreas, and ovaries in a simple, noninvasive manner. View his bio

## Adina Mangubat, 25

Chief Executive, Spiral Genetics

DNA sequencing is burying biologists in a flood of data. Mangubat's company has a cloud-based solution for dealing with all of it. Already at 25, she has a track record of successful leadership in high technology start-ups. View her bio

# Joshua Sommer, 24

Executive Director, The Chordoma Foundation

After being diagnosed with chordoma at 18, a rare bone cancer with a seven year average survival,

Sommer started the Chordoma Foundation, raising \$2.5 million and funding research in 11 labs. His advice to people diagnosed with a potentially fatal disease? "You have a lot of power." View his bio View Forbes full list of 30 under 30 in Science and Healthcare »

Register for Convention Access to attend Tuesday and Wednesday Keynote Luncheons »

# Debt, Taxes, Government Services and Politics—Is There a Way Out?

Wednesday Keynote, April 24: 12-1:30 pm McCormick Place • Chicago, IL

Learn More »

MoDerated by:

James C. Greenwood President & CEO Biotechnology Industry Organization Sponsored by:



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by March 14.

## **Exclusive Keynote Luncheons**

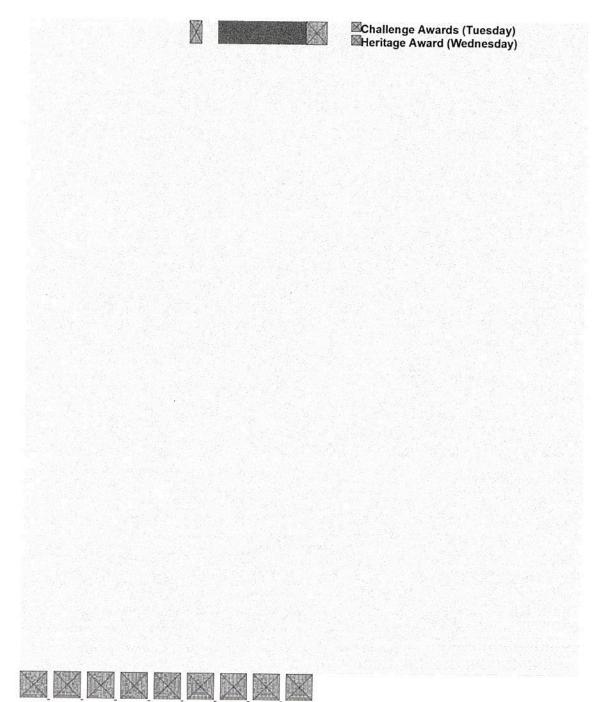
Keynote Luncheons are open exclusively to Full Luncheons:
Convention, Convention Access registrants, and registered Media.

Awards presented during Keynote Luncheons:

The International BioGENEius Biotechnology

Register Now

**Book Housing** 



#### 2013 BIO International Convention

April 22-25, 2013 | Chicago, IL Biotechnology Industry Organization 1201 Maryland Avenue, SW Suite 900 Washington, DC 20024 202.962.9200 (p) 202.488.6301 (f) This message was intended for: <a href="mailto:burkholder.dallas@epa.gov">burkholder.dallas@epa.gov</a>
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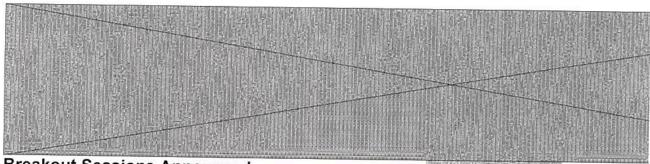
From: Sent:

**BIO World Congress** 

Thur 2/21/2013 9:48:54 PM

Subject:

Speakers Announced for Breakout Sessions



## **Breakout Sessions Announced**

Speakers in over 40 panels will focus on the latest in advanced biofuels and renewable chemicals. Highlights from the Breakout Sessions are listed below, but be sure to view the Breakout Session website for the full schedule.

New in 2013- an Academic Research Presentation track has been added to the Breakout Session program.

Sponsored by: DuPont

#### Advanced Biofuels and Biorefinery **Platforms**

Cellulosic Ethanol: Scale-up and Commercialization Yvonne Soeltl, Clariant

Ravikumar Rao, Praj Industries Limited

Oliver May, DSM

Jason Blake, Novozymes

Developments in Drop in Biofuels Robert Graham, Ensyn Technologies Jeff Webster, Sapphire Energy Inc. Joel Stone, Green Biologics Inc

Eric Mathur, SG Biofuels

View all panels on the Advanced Biofuels and Biorefinery Platforms Track

## Feedstock Crops and Biomass Supply

Creating an Acceptable Supply of Biomass

Feedstock to Satisfy Financing Requirements Carbon Capture and Biological Conversion: The Case for Co-Location

Moderator and Panelist: Chris Roach, Ceres, Inc. Moderator: Simon Gaboury, Rio Tinto Alcan Sam Jackson, Genera Energy, Inc.

Paolo Carollo, Chemtex International, Inc.

Bob Wooley, Gevo, Inc.

TBD, Bioprocess Algae Martin Voergh, St-Mary's Cement Group

Alan Bland, Western Research Institute

Simon Barnabe, University of Quebec at Trois-Rivi res Nathalie Dubois-Calero, Alga-Labs

View all panels on the Feedstock Crops and Biomass Supply Track

#### Renewable Chemical Platforms and **Biobased Materials**

Sponsored by: The Dow Chemical Company

Direct Conversion of Methane to Higher Value Products Using Biological Systems

Moderator: Doug Cameron, Firstgreen Partners Gregory Stephanopoulos, MIT

Mark Herrema, Newlight Technologies Josh Silvermann, Calysta BioSystems

Sean Simpson, Lanzatech

FDCA, The Rise of a New BioBased Building Block

Moderator and Panelist: Tom van Alken, Avantium Yi Huang, Novozymes

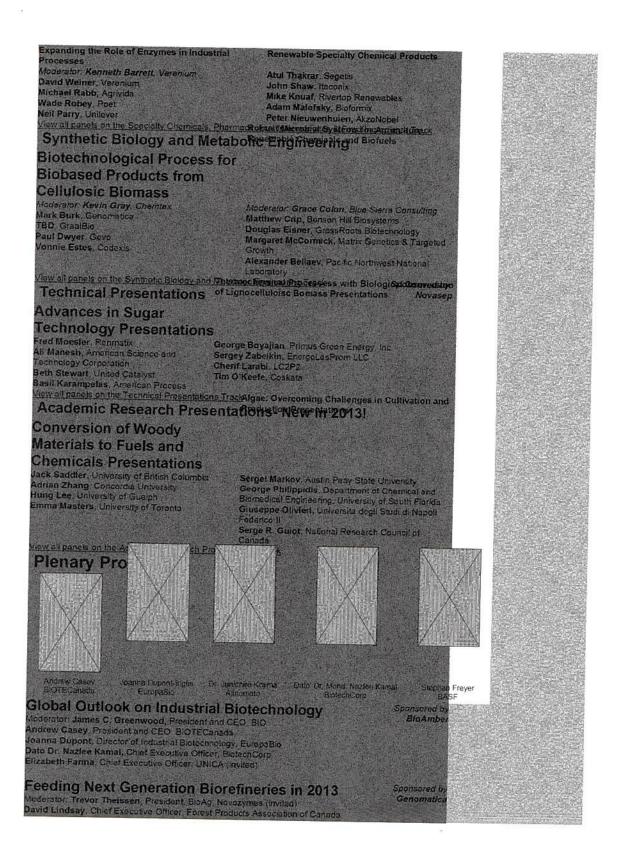
Mike Schultheis, The Coca Cola Company Marc Lankveld, BIRD Engineering

View all panels on the Renewable Chemical Platforms and Biobased Materials Track

### Specialty Chemicals, Pharmaceutical Intermediates & Food Ingredients

Sponsore by:

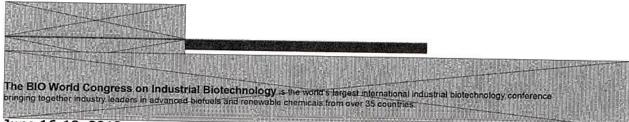
Biocatalysts Ltd



Mark Bunger, Research Director, Lux Research, Inc.
Paulo Carollo, Executive Vice President, Chemiex International Inc.
Mark Wong, Chief Executive Officer, Agrivida (invited)
Vitor Verdelho Vieira, Chief Development Officer, A4F-Aigal Fuel (invited) Building a Sustainable Biobased Industry Sponsored by Myrlan Moderator: Jack Huttner, Consultant, Huttner Strategies
Fred Luckey, Chairman, The Keystone Alliance for Sustainable Agriculture
Scott Vitters, Sustainable Packing Director, The Coca Cola Company
David McLaughille, Vice President, Agriculture, World Wildlife Fund (Invited) Biomanufacturing at Commercial Scale Sponsared by DSM Acderator, Christophe Schilling, Chief Executive Officer, Cenomatica Stephan Freyer, Senior Research Manager, Chemical Engineering Industrial Statechnology, BASE Sunichinotay, phar Junichiro Kojima, Research and Development Manager, Ajmomoto Martin A. Mitchell, Business Development Manager, The Americas, Clariant Biotech and Renewables Center (invited) Antonio Morschbacker, Renewable Tachnologies Director, Braskem (invited) Feeling the Heat of the Biofuels Boom Sponsored b Moderator, Jim Lane, Editor, Biofuela Digest
Dr. Robert Graham, Chief Executive Officer, EnSyn Corporation
Steve Hartig, Vice President, Bio-Energy, Royal DSM NV
Carlos Eduardo Cavaldanti, Head of Biofuels Department, Brazillan Development Novozyme David Danielson: Assistant Secretary for Energy Efficiency and Renewable Energy. U.S. Department of Energy (invited)
Bernardo Gradin, Chairman and CEO, Graal Bip (invited)
Geoffrey Tauvette, Director, Fuel and Environment, WestJet (invited)
Jonathan Wolfson, Chief Executive Officer, Solazyme (invited) new the Pienary Program website Registration and Housing Early Bird Registration Save hundreds of dollars by registering for the BIO World Congress on Industrial Biotechnology in advance! Click here to register now View the list of 2012 attending organizations Book Housing BIO has partnered with Travel Planners to secure the lowest rates at three hotels conveniently located near the Palais des congrès de Montreal for World Congress participants Delta Centre-Ville mbassy Suites Montreal Le Westin Montreal view a hotel map and make a hotel reservation Clean Tech Investor Sessions Sponsored by Bergeson & Campbell Entering their fourth year, emerging industrial biotechnology companies will present their new technologies, accomplishments. value propositions and business case to an elite group of investors at he Clean Tech Investor Sessions. innovative industrial biotechnology companies will be selected to participate in this program based on the following criteria:

- Breakthrough clean technologies
- Bio-based consumer product strategies
- Extensive intellectual property coverage
- View more information on the Clean Tech Investor Sessions.

View more information on the Clean Tech Investor Sessions.

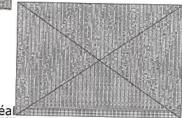


June 16-19, 2013

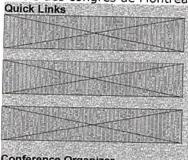
Chick here to submit your abstract thy Marich Hall floor plan

See bro2013 arbibition aganizations

Space is limited and available on a first-come, first-served basis.



Palais des congrès de Montréal



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Économique, de l'Innovation et de l'Exportation
MDEIE

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Wendy Siminski

Sent:

Mon 2/11/2013 9:32:50 PM

Subject:

10 Week Countdown to BIO: Spotlight on International Opportunities



# Countdown to BIO: International

Spotlight

The BIO International Convention delivers global business opportunities – one out of three attendees are from outside the U.S. **Exhibition Snapshot:** 

40 International Pavilions

24 State Pavilions

Booth Company

1770

Carbosynth

4943

Caregen Co., Ltd.

2470

Cobra Biologics

4040

**European Patent Office** 

1467

Fujifilm Diosynth Biotechnologies

4375

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1873, 4475 3972

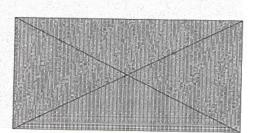
Samsung Biologics WuXi AppTec, Inc.

#### In this issue:

International Spotlights and Policy Track Global Programming Across Tracks International Market Briefings Super Sessions BIO One-on-One Partnering™ Letter from Governor Pat Quinn Looking for a Specific Country? Networking, Networking, Networking

Don't miss the global opportunities for you in Chicago! Register by March 14 to

Register Now

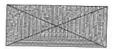


# Sponsors









# International Spotlights and Policy Track

Sponsored by: Baxter International Inc

This track will look at international markets to highlight the most successful policy instruments and development strategies to facilitate innovation. Track highlights include an entire day dedicated to biotechnology in the four BRIC nations, in addition to several individual country and issue-specific panels.

# Global Programming Across Tracks

Learn more about sessions including: Is Green Public Procurement a Red Herring in the Search for Sustainability?, Managing Global Trial Challenges: Avoiding Trial Delays and Legal Action, IP Strategies for the Developing World, It's a Small World After All: Development of Global Pediatric Plans, It's The Unitary Patent: How Will it Affect the Biotech Sector and Your Business?

# International Market Briefings

Sponsored by: Celgene

45-minute sessions where countries and regions around the world will present specific initiatives to generate promising new discoveries, create jobs, and spur economic growth and development.

# Super Sessions

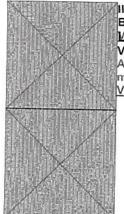
Register for Convention Access and enjoy the Scientific American Worldview Super Session, Burrill State of the Industry Report, Ernst & Young's Beyond Borders Report and much more.

# B40 One-on-One Parthering™

BIO One-on-One Partnering ™ is the most efficient and economical way to find a business partner. More than 25,000 meetings will be held in just four days. Register soon, partnering opens March 1st. Learn more »

International Reception

Sponsored by: State of Illinois/iBIO Wednesday, 5:15 pm - 6:15 pm



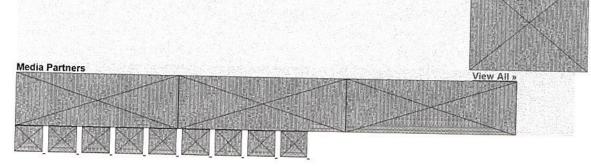
Illinois Governor Pat Quinn invites the global biotech community to the 2013 BIO International Convention.

# Looking for Specific Country?

Visit myBIO and enter the country name in the search field. See results for Attendees, Sessions/Events, Companies – don't forget to select the blue "See more results" button for each category.

Visit myBIO »

Networking, Networking, Networking
Mark your calendar for Monday's Welcome Reception, Tuesday's Exhibitor
Hospitality Receptions and Wednesday's International Reception followed by the
Gala Reception. See the complete BIO Party List.



# 2013 BIO International Convention

April 22-25, 2013 | Chicago, IL

Biotechnology Industry Organization 1201 Maryland Avenue, SW Suite 900 Washington, DC 20024 202.962.9200 (p) 202.488.6301 (f)

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Burkholder, Dallas[burkholder.dallas@epa.gov]

From:

Brent Erickson

Sent:

Thur 2/7/2013 6:02:27 PM

Subject:

The Most Productive Week You'll Have All Year

Dear Dallas.

As an integral member of the industry you are continuously receiving conference announcements. I know I am. But I feel it is important to keep you updated on developments for the 2013 BIO World Congress on Industrial Biotechnology.

We are proud to host a conference that stands out from the rest. It's the world's largest industrial biotech conference and we expect over 1,200 attendees to gather this June 16-19 in Montreal, Canada for the unbeatable programming and networking opportunities.

This year's line-up of plenary speakers includes leaders of industry. The plenary program will begin with a dynamic panel discussing current industrial biotech trends around the globe and the policies driving business development or hindering growth in this sector. Other panel discussions will cover Feeding Next-Gen Biorefineries in 2013, Building a Sustainable Biobased Industry, Biomanufacutring at Commercial Scale, and Feeling the Heat of the Biofuels Boom. Click here to view the full plenary program.

Confirmed Plenary Speakers Include:

James C. Greenwood, President and CEO, BIO (Moderator)
Andrew Casey, President and CEO, BIOTECanada
Joanna Dupont, Director of Industrial Biotechnology, EuropaBio
Dato Dr. Nazlee Kamal, Chief Executive Officer, BiotechCorp
Reed Doyle, Director, Corporate Social Responsibility, Seventh Generation
Fred Luckey, Chairman, The Keystone Alliance for Sustainable Agriculture
Christophe Schilling, Chief Executive Officer, Genomatica(Moderator)
Dr. Stephan Freyer, Senior Research Manager, Chemical Engineering Industrial Biotechnology, BASF
Dr. Junichiro Kojima, Research and Development Manager, Ajinomoto
Paulo Carollo, Executive Vice President, Chemtex International Inc.
Steve Hartig, Vice President, Bio-Energy, Royal DSM NV

I encourage you to view the <u>conference website</u> in the upcoming weeks when we release the Breakout Program speakers. The 2013 Breakout Program will feature over 200 speakers in seven tracks, including the new Academic Research Papers Track. This Track will feature 15 minute technical presentations on the latest advancements in renewable chemicals and biofuels from academia.

BIO One-on-One Partnering is BIO's proprietary software program that will allow you to intelligently search attending company's profiles and request on-site meetings. This feature is included free of charge as part of each attendee's registration. In the past, over 500 meetings between attending companies have taken place! The software will launch in early May.

We have extended the deadline for Clean Tech Investor Session company presentation applications to Thursday, February 21. This is a great opportunity for emerging companies seeking funding opportunities to make a formal presentation to an audience of investors. Click here to learn more about the Clean Tech Investor Sessions.

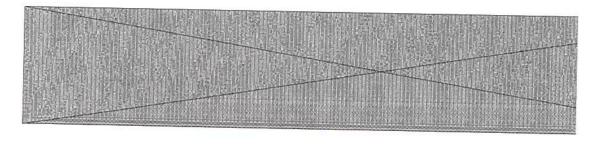
The BIO team looks forward to providing you with the most productive week you'll have all year at the 2013 BIO World Congress on Industrial Biotechnology. If you have any comments or suggestions, please contact worldcongress@bio.org.

Best Regards,

Brent Erickson
Executive Vice President

# Industrial and Environmental Section Biotechnology Industry Organization

PS - If you plan to travel from outside of Canada to attend the conference, please e-mail worldcongress@bio.org at your earliest convenience to request a visa letter.



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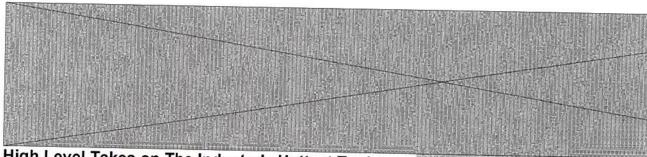
**BIO World Congress** 

Sent:

Thur 1/31/2013 6:25:27 PM

Subject:

Industrial Biotech Leaders to Forecast 2013 Business Trends



# High Level Takes on The Industry's Hottest Topics

Announcing the Plenary Program speakers at the 2013 BIO World Congress on Industrial Biotechnology. Join us June 16-19, 2013 in Montreal for this can't-miss event! View the Plenary Program or register now.

# Global Outlook on Industrial Biotechnology

Lunch Plenary, Monday, June 17

A dynamic panel with heads of industry will discuss current industrial biotech trends in their regions and policies driving business development or hindering growth in this sector. Sponsored by BioAmber, Inc.

Moderator: James C. Greenwood, President and CEO, BIO Andrew Casey, President and CEO, BIOTECanada Joanna Dupont, Director of Industrial Biotechnology, EuropaBio Dato Dr. Nazlee Kamal, Chief Executive Officer, BiotechCorp Elizabeth Farina, Chief Executive Officer, UNICA (invited)

# Feeding Next Generation Biorefineries in 2013

General Plenary, Monday, June 17

Biotech feedstock producers and experts in the field will discuss the progress in deploying conventional and novel feedstocks around the world, and what challenges feedstock providers face as they attempt to build and expand a marketplace for biobased raw materials. Sponsored by Genomatica

Moderator: Trevor Thiessen, President, BioAg, Novozymes (invited) Vitor Verdelho Vieira, Chief Development Officer, A4F-Algafuel (invited)

# Building a Sustainable Biobased Industry and George Washington Carver Award

Lunch Plenary, Tuesday, June 18 Industrial biotech innovators, global brand owners, retailers, and consumers will discuss how the industrial biotech sector can move from R&D to commercial deployment, while preserving it's contribution to a more sustainable production system. Learn more Sponsored by Myriant

Moderator: Scott Vitters, Sustainable Packing Director, The Coca Cola

Reed Doyle, Director, Corporate Social Responsibility, Seventh Generation Fred Luckey, Chairman, The Keystone Alliance for Sustainable Agriculture David McLaughlin, Vice President, Agriculture, World Wildlife Fund (invited) John Viera, Global Director, Sustainability and Environment, Ford Motor Company (invited)

# Biomanufacturing at Commercial Scale

Breakfast Plenary, Wednesday, June 19

Large scale chemical producers will discuss their experiences in commercializing renewable chemicals. Topics will encompass what steps major companies are taking to integrate biotech innovation into their platforms and what process technologies have achieved success in the commercial market thus far. Learn more Sponsored by: DSM

# Moderator: Christophe Schilling, Chief Executive Officer, Genomatica

Dr. Stephan Freyer, Senior Research Manager, Chemical Engineering Industrial Biotechnology, BASF Martin A. Mitchell, Business Development Manager, The Americas, Clariant Biotech and Renewables Center (invited)

Dr. Junichiro Kojima, Research and Development Manager, Ajinomoto Antonio Morschbacker, Renewable Technologies Director, Braskem (invited)

# Feeling the Heat of the Biofuels Boom

Lunch Plenary, Wednesday, June 19

Advanced biofuels producers, government officials, and biofuels customers will discuss significant policy challenges and mounting political pressure against the industry. Topics will cover the shift in public opinion on the potential for biofuels as a viable petroleum alternative, cap ex hurdles, regulatory burdens, and how the biofuels industry plans to overcome these obstacles in 2013. Sponsored by Novozymes

David Danielson, Assistant Secretary for Energy Efficiency and Renewal Energy, U.S. Department of Energy (invited)

Steven Hartig, Vice President, Bio-Energy, Royal DSM NV (invited)

Bernardo Gradin, Chairman and CEO, Graal Bio (invited)

Alexandre Kiyoshi Ramos Tanaka, Deputy Chief, Departamento de Apoio, FINEP (invited)

Who will you hear from at the 2013 BIO World Congress on Industrial Biotechnology?











Andrew Casey BIOTECanada

EuropaBio

Joanna Dupont-Inglis Dr. Junichiro Kojima Ajinomoto

Dato Dr. Mohd. Nazlee Kamal BiotechCorp

Stephan Freyer BASF

Click here to view the full schedule of events

# Registration and Housing

# **Early Bird Registration**

Save hundreds of dollars by registering for the BIO World Congress on Industrial Biotechnology in advance!

Click here to register now

Who will you meet at BIO World Congress?

- C-Level Executives
- **Business Development Executives**
- Researchers and Scientists
- Legal Professionals
- Regulatory Experts and Government Officials
- Educators

See the list of 2012 attending organizations

# **Book Housing**

BIO has partnered with Travel Planners to secure the lowest rates at three hotels conveniently located near the Palais des congrès de Montréal for World Congress participants.

Delta Centre-Ville Embassy Suites Montréal Le Westin Montréal

View a hotel map and make a hotel reservation

# Clean Tech Investor Sessions

Entering their fourth year, emerging industrial biotechnology companies will present their new technologies, accomplishments, value propositions and business case to an elite group of investors at the Clean Tech Investor Sessions.

Innovative industrial biotechnology companies will be selected to participate in this program based on the following criteria:

- Breakthrough clean technologies
- Bio-based consumer product strategies
- Extensive intellectual property coverage
- View more information on the Clean Tech Investor Sessions.

View more information on the Clean Tech Investor Sessions.

### Call for Posters

The BIO World Congress Poster Session provides you with opportunity to generate attention and enthusiasm for your work and you can also save hundreds of dollars on registration fees with our poster presenter discount. Posters will be prominently featured in the Exhibit Hall for the duration of the conference and during the Poster Session Reception will be held on Tuesday, June 18.

Click here to submit your abstract by March 1

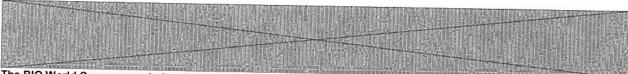
# Reserve Exhibit Space

Exhibiting at BIO World Congress enables you to reach key decision makers, networking globally and brand your organization as an industry leader.

With over 50% of the exhibit space sold, we encourage you to book today!

View the exhibitor packages and the Exhibit Hall floor plan.

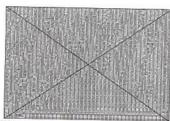
Space is limited and available on a first-come, first-served basis.



The BIO World Congress on Industrial Biotechnology is the world's largest international industrial biotechnology conference bringing together industry leaders in advanced biofuels and renewable chemicals from over 35 countries.

June 16-19, 2013 Montréal, Canada bio.org/worldcongress

Conference Venue:



Palais des congrès de Montréal



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From:

Brent Erickson

Sent:

Tue 5/19/2015 1:01:45 PM

Subject: Special Announcement: Mr. Jonathan Wolfson to Receive the 2015 BIO George Washington

Carver Award

Dear Dallas.

The Biotechnology Industry Organization (BIO) is pleased to announce that we have named Solazyme CEO Jonathan S. Wolfson as the recipient of its 2015 George Washington Carver Award for innovation in industrial biotechnology. George Washington Carver was one of the founding fathers of the chemurgy movement, a branch of applied chemistry focused on manufacturing industrial products from raw agricultural materials. Industrial biotechnology is the modern-day equivalent of Carver's vision for chemurgy, and the award honors individuals for carrying on Carver's legacy.

# Mr. Jonathan Wolfson

BIO is pleased to recognize Jonathan for his determination to provide solutions to some of today's greatest challenges in energy, nutrition and industrials. Just like George Washington Carver, Jonathan wants others to live better by having access to greener consumer products, healthier foods, better home and personal care products, and more sustainable, cheaper transportation fuel.

"Jonathan S. Wolfson's commitment to this industry matches that of George Washington Carver. The innovation he has demonstrated throughout his career makes him very worthy of the recognition attached to this award," said Joe Hrdlicka, Executive Director of the Iowa Biotechnology Association and sponsor of the 2015 award.

Wolfson will receive the award and give a brief talk at the upcoming BIO World Congress on Industrial Biotechnology in July in Montreal, Canada. A special selection committee chose Wolfson for his vision to take one of the smallest organisms in the world - microalgae - and use it to revolutionize some of the biggest industries in the world. Solazyme's revolutionary biotechnology platform enhances the oil-producing nature of microalgae at the cellular level to tailor-make amazing oil profiles that bring specific benefits to people and the planet.

The company's sustainable algal oils can replace petroleum-based and other unsustainable oils widely used in many industries today. Solazyme's algal oils have a lower carbon footprint than nearly all natural oils- including fossil fuels, palm, palm kernel, and soybean. The company is able to turn plant-based sugars – like sucrose from sugar cane and dextrose from corn – into entirely new sources of healthy food ingredients in a matter of days.

Wolfson has positioned Solazyme to succeed across a variety of vertical industries – from skincare to food, from industrials to liquid fuels – with many of the world's leading brands lining up to codevelop and purchase Solazyme oils, making the company first to market with algae-based ingredients for chemicals and biofuel.

In November of 2014, Solazyme was awarded the Presidential Green Chemistry Challenge for its groundbreaking microalgae-based renewable oils and ingredients platform. This was the first time that an algae company has been recognized for this honor.

A graduate of New York University (NYU) School of Law and Stern School of Business, Wolfson recognizes the value of education in propelling biotechnology innovation. In his tenure at Solazyme, he has overseen the filing of the company's 300-plus technology patents.

With the support of the Iowa Biotech Association—the award sponsor—BIO will present Mr. Wolfson with the George Washington Carver Award during the Monday, July 20th plenary lunch session at the 2015 BIO World Congress on Industrial Biotechnology located in Montreal, Canada. To view the details on the plenary program, click here.

Past recipients of the Carver Award are Dr. Patrick Gruber, CEO of Gevo, Inc., in 2008; Charles O. Holliday, Jr., Chairman of the Board of DuPont in 2009; Gregory Stephanopoulos, The Willard Henry Dow Professor of Chemical Engineering at Massachusetts Institute of Technology in 2010; Feike Sijbesma, CEO of Royal DSM in 2011; Steen Riisgaard, President and CEO of Novozymes in 2012; Dr. Jay Keasling, Hubbard Howe Jr., Distinguished Professor of Biochemical Engineering at the University of California, Berkeley in 2013; and Ellen Kullman, CEO & Chair of the Board, DuPont in 2014.

I encourage you to join me in congratulating Mr. Wolfson for his contributions, dedication and commitment to the advancement of the industrial biotechnology field. Regards,



Brent Erickson
Executive Vice President
Industrial and Environmental Section
Biotechnology Industry Organization
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From:

n: Brent Erickson

Sent:

Thur 5/7/2015 5:08:30 PM

Subject: Award Special Announcement: Dr. Jennifer Holmgren to Receive the 2015 BIO Rosalind Franklin

Dear Dallas,

It is with great pleasure we are announcing that **Dr. Jennifer Holmgren will be the recipient of the 2015 BIO Rosalind Franklin Award for Leadership in Industrial Biotechnology at the BIO World Congress on Industrial Biotechnology, which will take place July 19-22 in Montreal, Canada.** Dr. Holmgren's work and commitment to the advancement of her field of industrial biotechnology embodies the spirit of Rosalind Franklin and her pioneering efforts.

# Dr. Jennifer Holmgren

This award was created to help carry on the legacy of Rosalind Franklin who not only aided in the expansion of biotechnology, but also helped pave the way for women in this field . Rosalind Franklin was instrumental in the discovery and our greater understanding of the molecular structure of DNA. Through Rosalind Franklin's use of X-ray diffraction images, the true double helix structure of DNA was discovered. With the aid of Franklin's images and writings, Francis Crick and James Watson were able to release their 1953 model of the structure of DNA.

More than fifteen female leaders in industrial biotechnology were nominated for the award. Dr. Holmgren's accomplishments and dedication stood out to the Rosalind Franklin Award Selection Committee, who selected her as the inaugural recipient.

Dr. Holmgren is CEO of a revolutionary carbon recycling company, LanzaTech. Under her leadership, LanzaTech is developing the world's first alternative jet fuel from industrial waste gases using intermediates derived through industrial biotechnology. LanzaTech's technology, certified by the Roundtable on Sustainable Biomaterials (RSB) in 2013, is ready to deploy globally today, with a 30 million gallon nameplate facility targeted for construction in China in 2015, producing fuel ethanol from steel mill off gases.

Dr. Holmgren's team has defined the genetic blueprint of gas fermenting organisms and demonstrated in the laboratory that they can be engineered to produce a range of novel, commercially valuable molecules. LanzaTech's work is a cornerstone for the development of an entire industry that uses gas fermentation to convert a variety of wastes or low value resources into a diverse spectrum of low carbon fuels and chemicals.

Prior to joining LanzaTech, Dr. Holmgren was Vice President and General Manager of the Renewable Energy and Chemicals business unit at UOP LLC, a Honeywell Company. She was one of the key drivers of UOP's leadership in aviation biofuels, and under her management, UOP technology became instrumental in producing nearly all of the initial fuels used by commercial airlines for testing and certification of alternative aviation fuel for passenger flights. These test flights brought tremendous visibility to the potential of renewable aviation fuel and the role of biotechnology in feedstock development.

Dr. Holmgren holds a Bachelor of Science degree from Harvey Mudd College, a Doctor of Philosophy from the University of Illinois at Urbana-Champaign and a Master of Business Administration from the University of Chicago. She is the author or co-author of 50 US patents and 20 scientific publications and was named as one of the top 10 most influential leaders in the Biofuels Industry by Biofuels Digest for 2013-2014.

With the support of the Rosalind Franklin Society-- the award sponsor -- BIO will present Dr. Holmgren with the BIO Rosalind Franklin Award. The Rosalind Franklin Society is an honorific, interdisciplinary, and international society which recognizes, fosters, and advances the important contributions of women in the life sciences and affiliated disciplines. In so doing, the Society honors the under-recognized achievements of the late Rosalind Franklin (1920-1958). To

celebrate the life, work, and symbolic power of this remarkable heroine in science, the Society recognizes the work of outstanding women scientists, fosters greater opportunities for women in the sciences, and motivates and educates by examples young generations of women who have this calling.

During this conference, BIO will also hold a <u>Women in Industrial Biotechnology Reception which is schedule to take place on July 19 at 4:30 pm.</u> This reception is only accessible to attendees of the BIO World Congress and has a limited number of spots available on a first-come, first-served basis. Email rhayes@bio.org to reserve your spot today.

I encourage you to join me in congratulating Dr. Holmgren for her contributions, dedication and commitment to the advancement of the industrial biotechnology field.

# Regards,



Brent Erickson
Executive Vice President
Industrial and Environmental Section
Biotechnology Industry Organization
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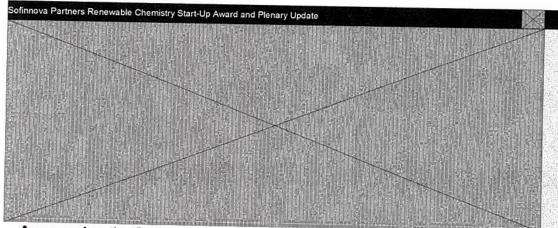
From:

Brent Erickson

Sent:

Mon 5/4/2015 4:31:22 PM

Subject: Announcing the Sofinnova Partners Start-Up Award



Announcing the Sofinnova Partners Renewable Chemistry Start-Up Award

Calling all start-up companies active in renewable chemistry, industrial biotechnology or renewable fuels: Apply today for the <u>Sofinnova Partners Renewable Chemistry Start-up Award</u> by **May 30, 2015**.

This award will recognize the most promising renewable chemistry start-up company in the industry. The Top 5 companies with the highest number of popular online votes will pitch their project at the 2015 BIO World Congress on Industrial Biotechnology. The winner will then be selected onsite by an industry jury at the Monday, July 20th event.

<u>Sofinnova Partners</u> is a leading European venture capital fund based in Paris investing in startup and early stage companies across Europe and North America.

# Biobased Innovations for the Future

Sponsored by:



Jim Lane Editor & Publisher, **Biofuels Digest** (Moderator)

Olga Selifonova CEO & Founder, **Reluceo** 

William Radany President & CEO, Verdezyne



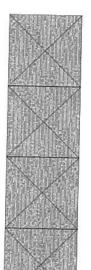
David Demirjian CEO, **ZuChem** 

Andras Forgacs Co-Founder & Chief Executive, Modern Meadows

# Success Stories

Lunch Sponsored by: Andrew Hagan

Director, Head of Chemicals Industry, World Economic Forum (Moderator)



Tjerk de Ruiter CEO, Corbion

Vincent Chornet Cofounder, President & CEO, Enerkem

Robert Graham CEO & Chairman, Ensyn

Joel Stone President, North America & Global Vice President Engineering, **Green Biologics** 

Feedstock Sustainability in the Biobased Economy

Supporting Organization:



Matthew Rudolph
Business Development Manager, Roundtable on Sustainable Biomaterials
(RSB) (Moderator)



Ken Shields CEO & Chairman, Conifex Timber

Allan Green Research Program Director for Bioproducts, CSIRO

James Levine CEO, Sapphire Energy

Steve Fabijanski President & CEO, **Agrisoma Biosciences Inc.** 

# Flying the Friendly Green Skies & the Rosalind Franklin Award Presentation



Steve Csonka
Executive Director, Commercial Aviation Alternative Fuels Initiative (CAAFI)





Alejandro Rios Galvan Director, Sustainable Bioenergy Research Consortium, Masdar Institute of Science and Technology



Maria Fiskerud Nordic Director, Sky NRG

Award Sponsored by:



The Honorable James C. Greenwood
President and CEO, Biotechnology Industry Organization(Moderator)

The Honorable Terry Branstad Governor, Iowa, United States

Barend Verachtert Deputy Head of Biotechnologies Unit, European Commission

Bernardo Silva Executive Chairman, **Praj Industries Limited** 

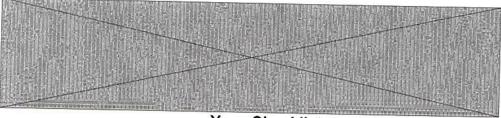
Pramod Chaudhari Executive President, Brazilian Industrial Biotechnology Association (ABBI)

View the Plenary Program »

# Don't Wait Until the Last Minute to Plan for Montreal

The BIO World Congress on Industrial Biotechnology taking place July 19-22, 2015 in Montreal is less than 90 days out. Don't miss out on being a part of the must-attend event for industrial biotechnology professionals.

Remember summer marks Montreal's famous festival season and "Just for Laughs" comedy festival will be taking place during BIO World Congress. Also, you can be part of two conferences in one trip by attending BioFuelNet's Advanced Biofuels Symposium July 22-24 at the Hotel Omni.



# Your Checklist:



View the program and attending organizations

Consider spending more time in Montreal

Register for the conference

Book your hotel room at a discounted rate

Book your flight



Secure your visa- If you are an international attendee an invitation letter will be automatically generated for you at the end of the online conference registration

State and Regional Approaches to Developing the Biobased Economy & the George Washington Carver Award Presentation

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The Honorable James C. Greenwood
President and CEO, Biotechnology Industry Organization(Moderator)

The Honorable Terry Branstad Governor, Iowa, United States



Barend Verachtert
Deputy Head of Biotechnologies Unit, European Commission



Bernardo Silva Executive Chairman, **Praj Industries Limited** 



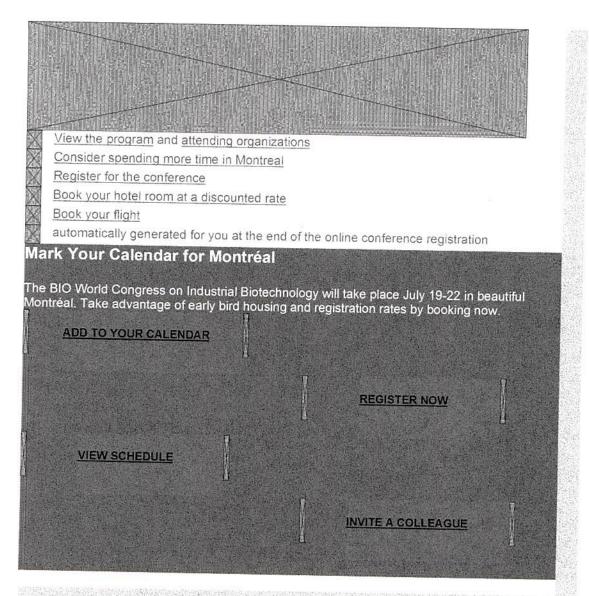
Pramod Chaudhari Executive President, Brazilian Industrial Biotechnology Association (ABBI)

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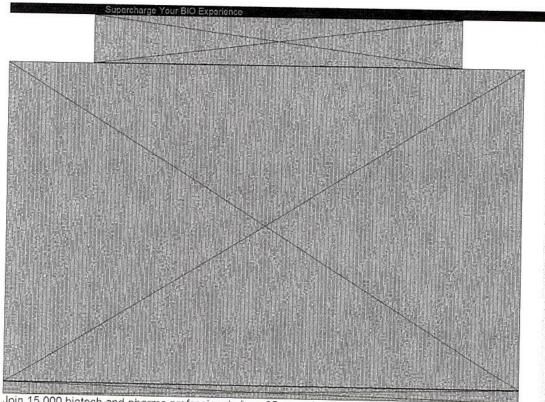
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From: Wendy Siminski

Sent: Thur 4/23/2015 8:11:01 AM

Subject: Join 2,500 CEOs and 15,000 global attendees at BIO 2015

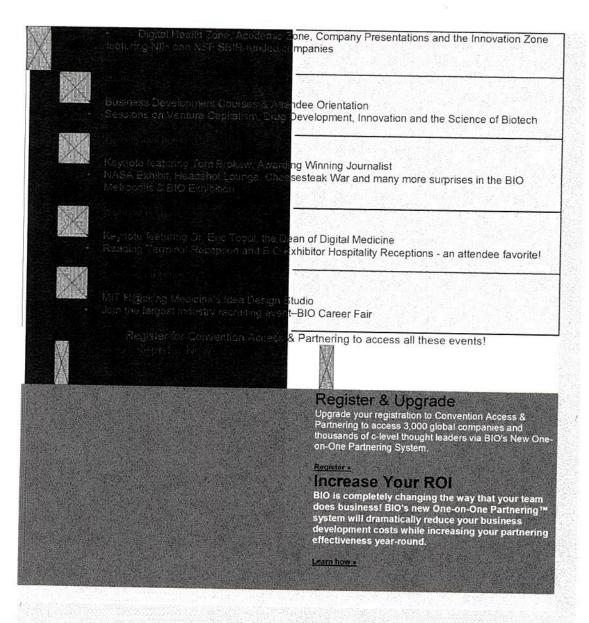


Join 15,000 biotech and pharma professionals from 65 countries for the largest, most influential biotech partnering meeting in the world, the 2015 BIO International Convention. BIO 2015 will be held June 15-18th in Philadelphia, Pennsylvania. The event will feature 100+ educational sessions, host 1,700 exhibitors and is the largest venue for private company-to-company meetings ("partnering") in the world. More than 29,000 One-on-One Partnering™ meetings between 3,000 participating companies will take place during BIO 2015. Early bird rates end April 23, visit convention.bio.org to register.

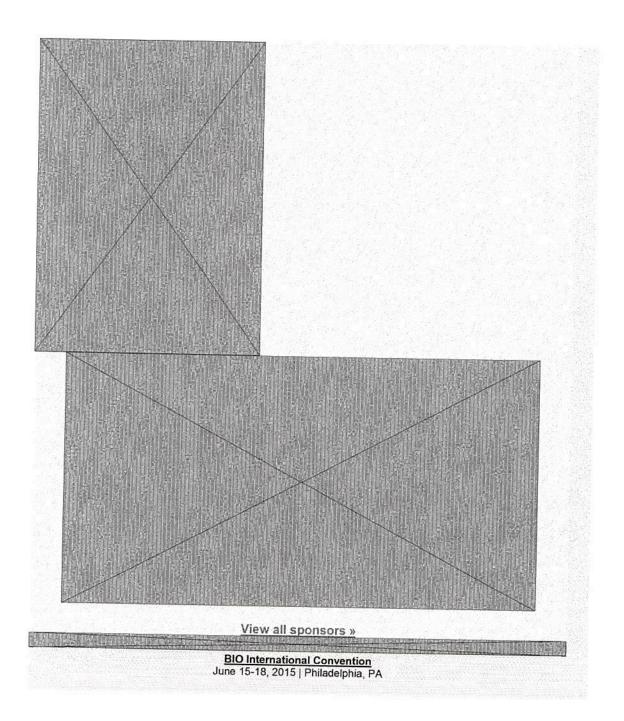
# The BIO 2015 "Can't-Miss" List

Excitement is building for the largest biotech gathering of the year and your chance to save on registration ends April 23. Here are several new highlights in our Convention Access & Partnering package that have the industry talking:

the indi	ustry talking:
	Monday Kickoff Concert Featuring Boyz II Men, The Roots and Kool & The Gang
X	Monday - Thursday: education Industry leaders including Dr. Francis Collins, Dr. Carl June, Katrine Bosley and more forecast the future of biotech
	Tuesday - Thursday: partnering World's largest biotech and pharma partnering event facilitating 29,000+ meetings in BIO's new One-on One Partnering™ System
	Tuesday - Thursday: BIO Exhibition
	2 Floors of Exhibits, 40+ Pavilions and 8 Focus Zones



**BIO International Convention** 



Biotechnology Industry Organization | 1201 Maryland Ave., SW, Ste. 900 | Washington, D.C. 20024

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